METHOD OF DETERMINING A NEAREST NUMERICAL NEIGHBOR POINT IN MULTI-DIMENSIONAL SPACE

Abstract

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A method of determining a near neighbor to a target point in multidimensional space from among a set of candidate points includes generating a matrix of bins and identifying a first bin that contains the target point. The first bin is searched for a first candidate point, and a set of proximate bins selected from the matrix are identified. Each of the proximate bins has at least a portion potentially closer to a first selected point in the first bin than is a second selected point in the first bin.